

BELLCOMM, INC.

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WASHINGTON, D.C. 20024

B70 07019

SUBJECT: Launch Windows - 1970 to 1974
Case 310

DATE: July 7, 1970

FROM: H. F. Connor

MEMORANDUM FOR FILE

The attached sheets were prepared to show the approximate launch dates to nine lunar sites for any month through December, 1974. The plots are accurate to approximately one-quarter of a day. The launch dates are in terms of Eastern Standard Time. Corrections will be needed for a mission profile which differs from the assumed standards, as follows:

1. A total elapsed time of 108 hours was assumed from earth launch to LM landing. An increase or decrease in this figure will require, respectively, an identical advancement or delay of the launch time.
2. The dawn terminator was assumed to be 10 degrees west of the site at LM landing. An increase or decrease in this figure will require, respectively, a delay or advancement of the launch time by two hours for each degree. Note that the displacement of the dawn terminator from the landing site is numerically equal to the sun elevation angle at the equator, but will become greater than the sun elevation angle as the latitude of the site increases.

2013-HFC-jab

H.F. Connor

H. F. Connor

Attachments

(NASA-CR-113358) LAUNCH WINDOWS, 1970 -
1974 (Bellcomm, Inc.) 5 p

N79-71656

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Unclassified
11851

FF No. 6

(NASA CR OR TMX OR AD NUMBER)

(CATEGORY)

110000



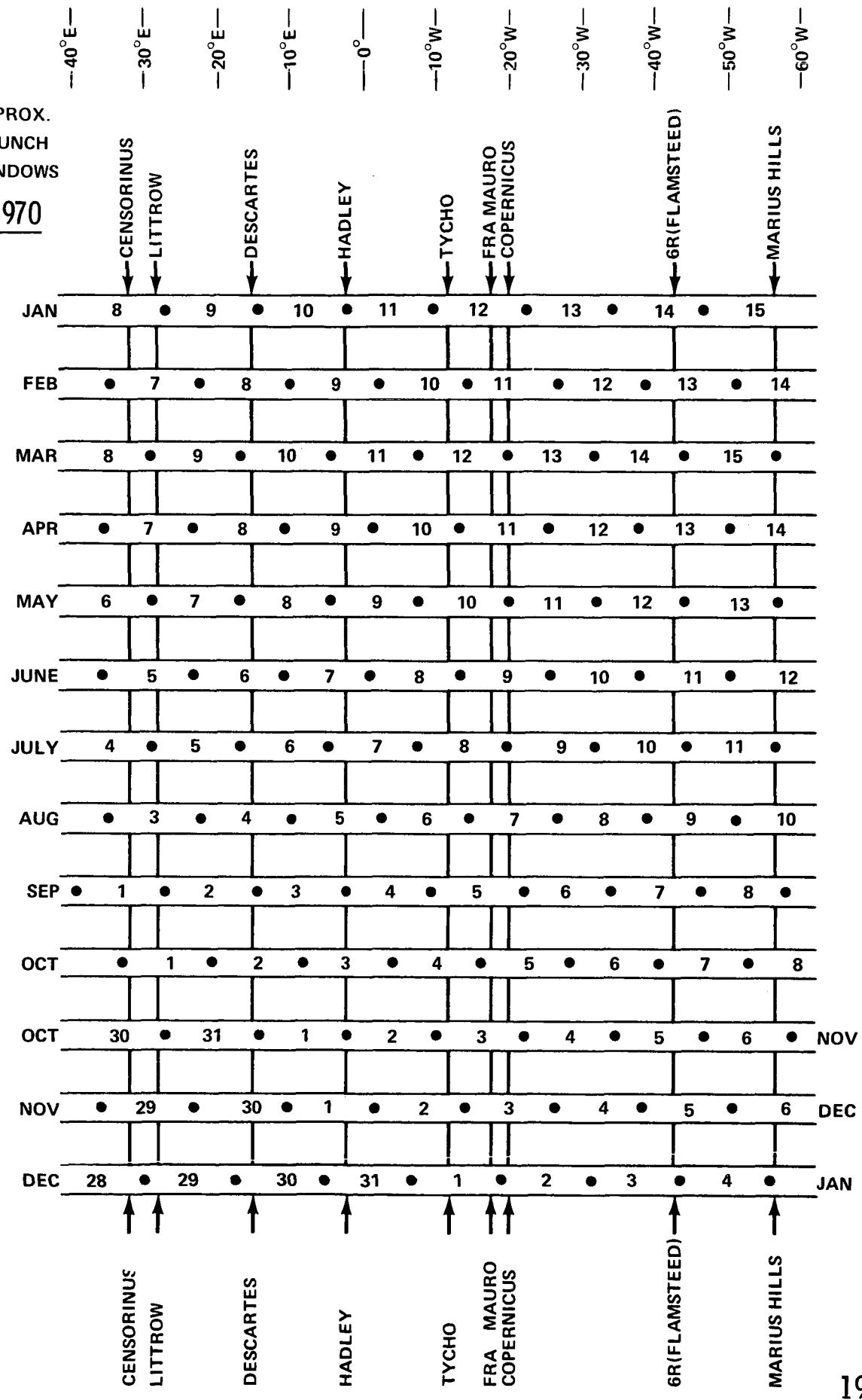
NOTE: DATING SYSTEM USES E.S.T.

ASSUMPTIONS: 108 HRS. FROM EARTH LAUNCH
TO LM LANDING.

DAWN TERMINATOR IS 10° WEST
OF SITE AT LANDING.

APPROX.
LAUNCH
WINDOWS

1970

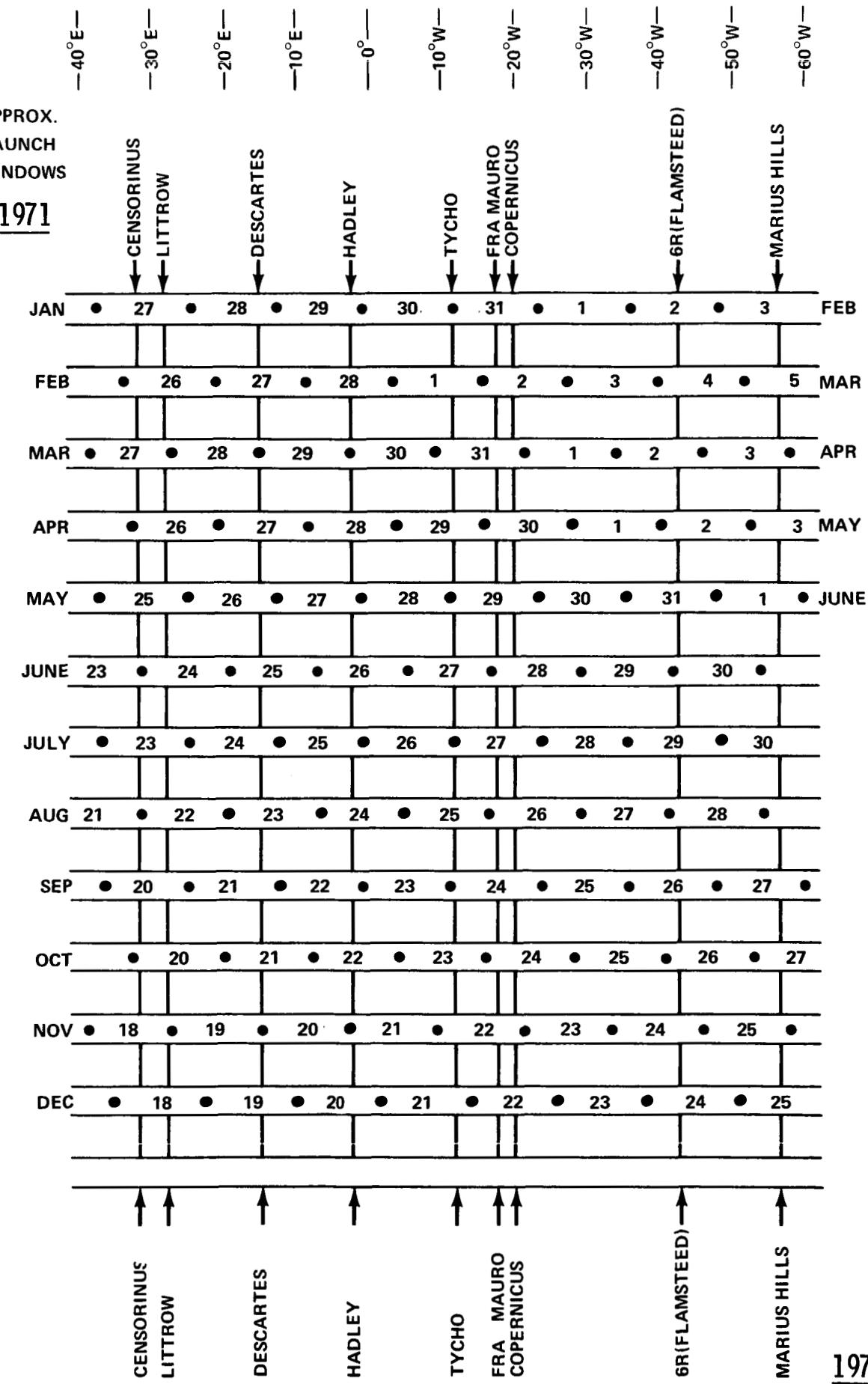


1970

NOTE: DATING SYSTEM USES E.S.T.

ASSUMPTIONS: 108 HRS. FROM EARTH LAUNCH
TO LM LANDING.

DAWN TERMINATOR IS 10°WEST
OF SITE AT LANDING.



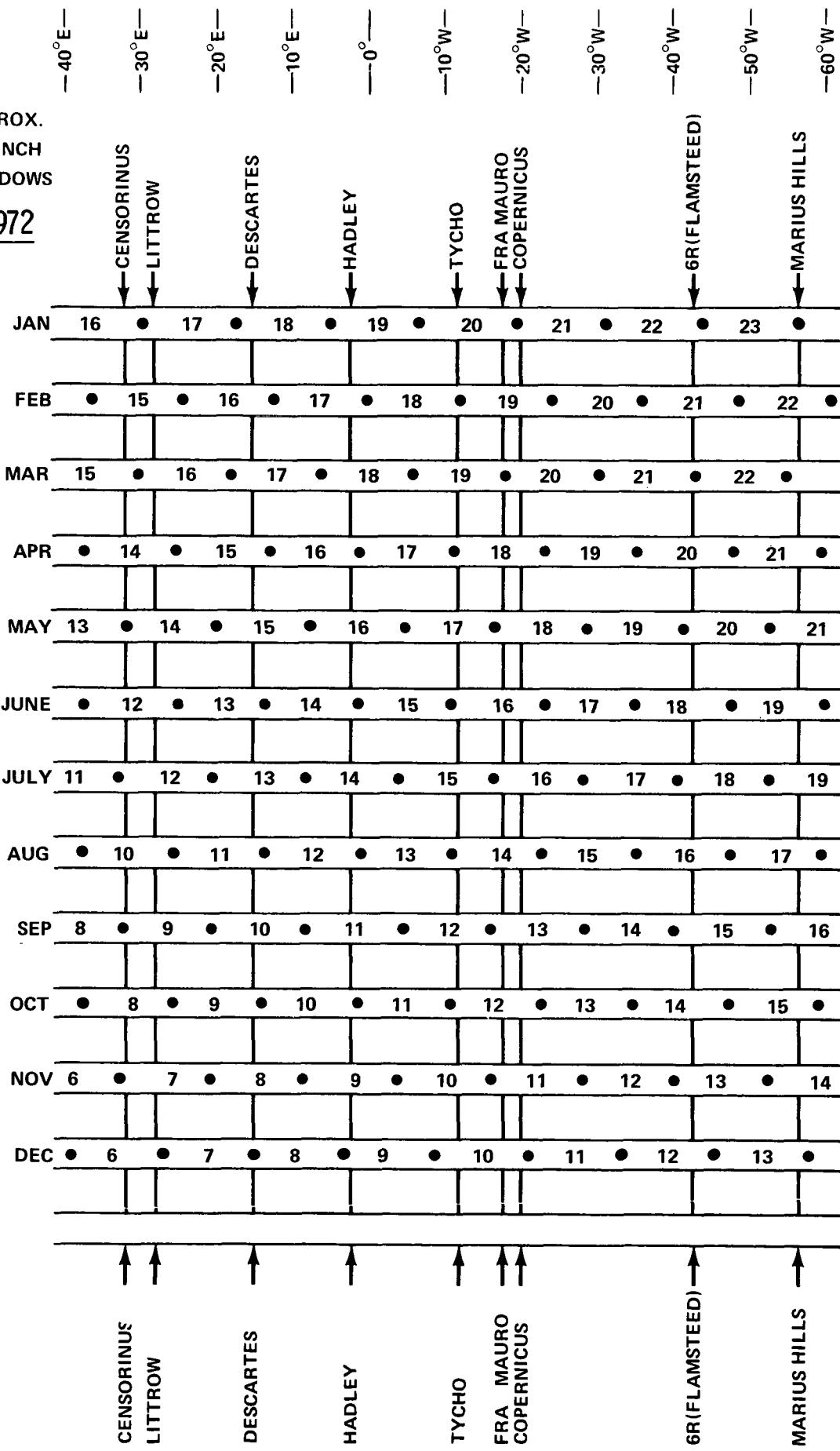
NOTE: DATING SYSTEM USES E.S.T.

ASSUMPTIONS: 108 HRS. FROM EARTH LAUNCH
TO LM LANDING.

DAWN TERMINATOR IS 10° WEST
OF SITE AT LANDING.

APPROX.
LAUNCH
WINDOWS

1972



1972

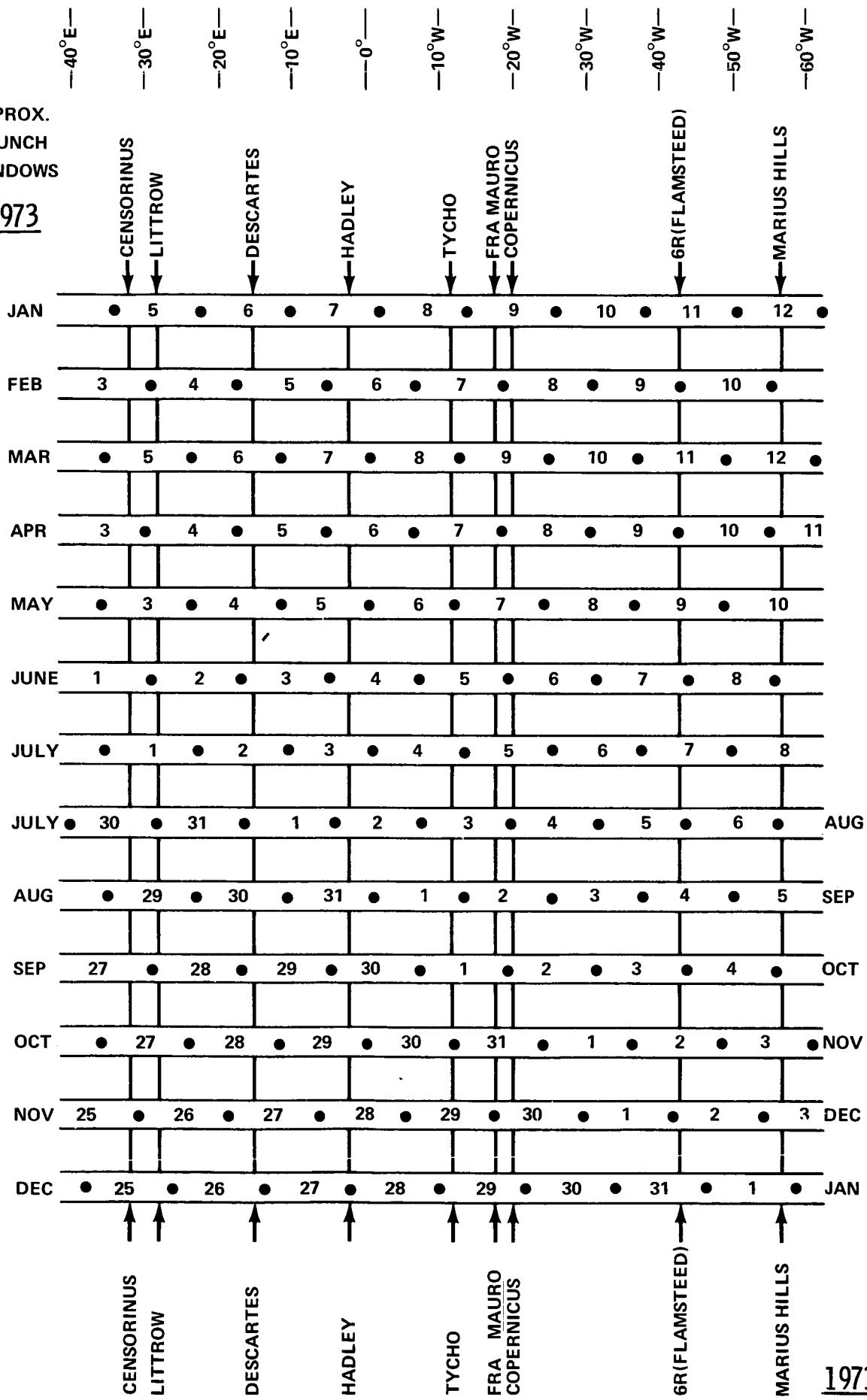
NOTE: DATING SYSTEM USES E.S.T.

ASSUMPTIONS: 108 HRS. FROM EARTH LAUNCH
TO LM LANDING.

DAWN TERMINATOR IS 10°WEST
OF SITE AT LANDING.

APPROX.
LAUNCH
WINDOWS

1973



NOTE: DATING SYSTEM USES E.S.T.

ASSUMPTIONS: 108 HRS. FROM EARTH LAUNCH
TO LM LANDING.
DAWN TERMINATOR IS 10°WEST
OF SITE AT LANDING.

